T7470

Paging System Transmitter

USER MANUAL

LRS

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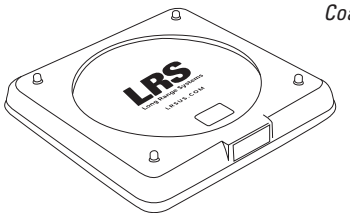
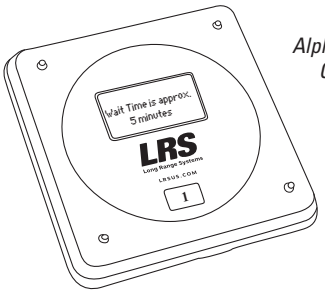
Compatible Pagers

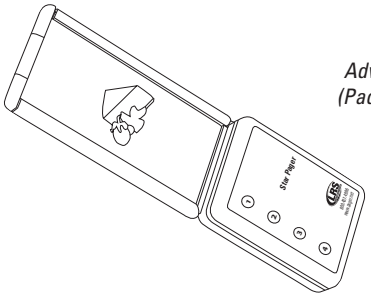
Customer Pagers:



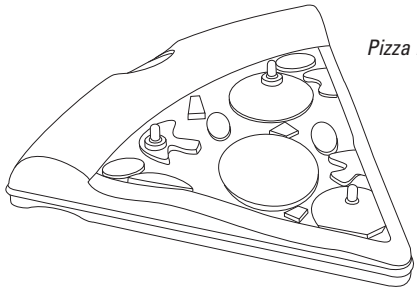
Coaster Call



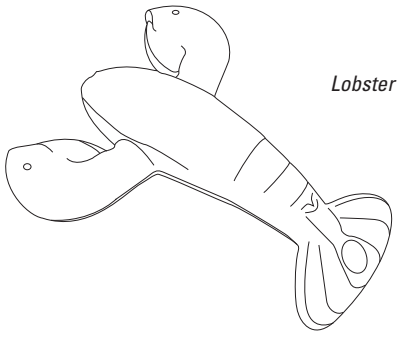
Alphanumeric Coaster



AdverTeaser (Paddle)Pager

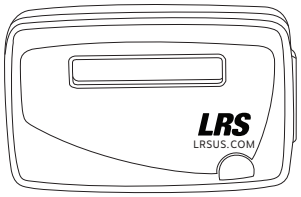


Pizza Pager



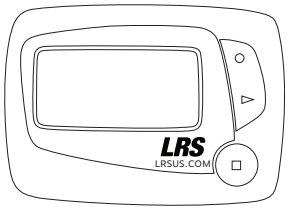
Lobster Pager

Staff Pagers:



SP5 1-Line Rechargeable Alphanumeric Pager

Star Pager



RX-E 4-Line Alphanumeric Pager (Battery Operated)

Installation and Setup

Hardware Provided

The system contains the transmitter keypad, an instruction booklet, an antenna, a strip of Velcro, rubber feet, ethernet cable, and a 12-VDC power adapter.

Notice: Operation is subject to the following:

- This device may or may not cause interference.
- This device will accept any interference including interference that may cause undesired operation of the unit.

Notice: To reduce potential radio interference to other users, the antenna type and gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than required for successful communication.

Installation Procedure

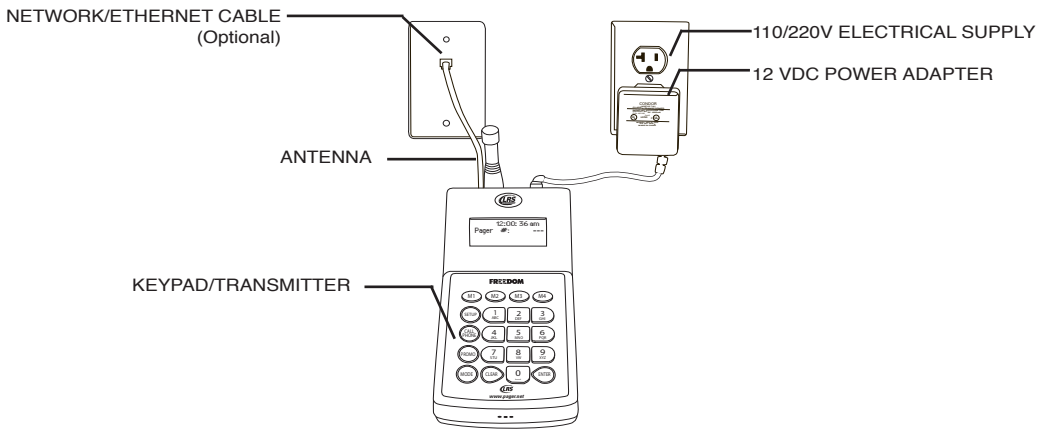
The following is the basic installation procedure:

CAUTION: *Do not mount the transmitter antenna near any large metal objects.*

1. Un-wrap all system components.
2. Twist the 3" antenna onto the silver connector located on the rear of the transmitter.
3. Plug the power adapter into a standard 110/220V outlet and insert the barrel connector end into the port located on the rear of the antenna.
4. Upon completion of setup, make sure pagers are fully charged and/or have good batteries and are powered on.
5. The systems are shipped ready for the most general use. If you need to modify settings, refer to the table of contents to locate a specific function guideline.

Connections

The following diagram shows the system connections.



Keypad Description

Before using the keypad, read the following keypad descriptions.

Note: *As the display changes, the keys may perform different functions.*

Setup Key

The Setup key enables menus when checking or changing the transmitter's programmed settings.

Cell Phone Button

This key is used to enter the patron's mobile phone number into the T7470's memory.

Promo Key

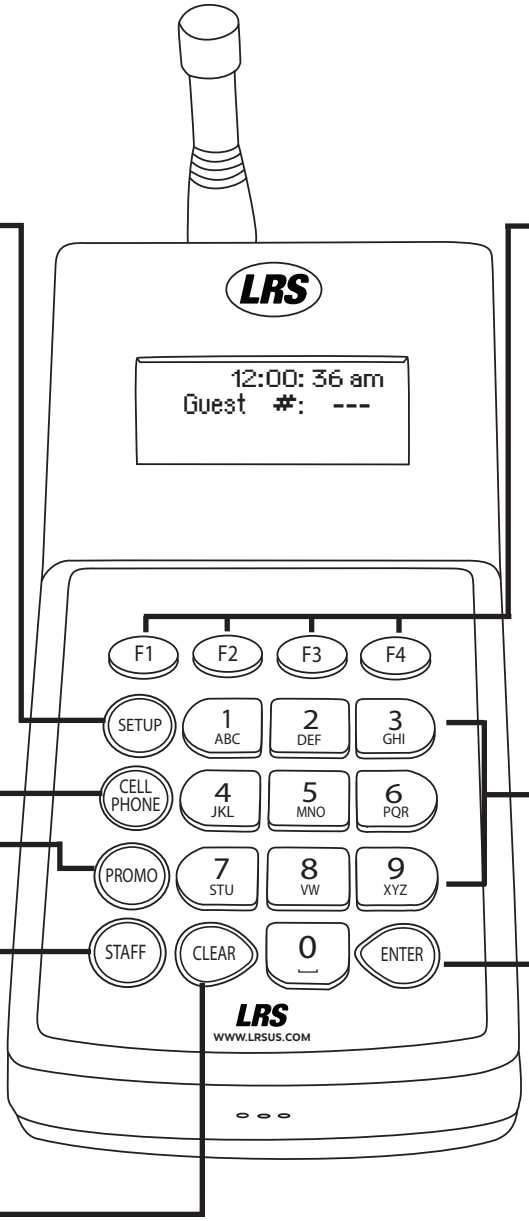
Allows entering email addresses for future promotions.

Staff Key

Used to temporarily change the paging function to page Staff pagers.

Clear Key

Clears the input when paging a pager and returns to the Guest paging display or to restart an input when programming.



F Keys

The F (function) keys are the first row of keys under the display. The F1 - F4 keys correspond to the bottom row of text in the keypad display window.

Number Keys

Keys 1 through 0 enter numeric data such as the pager number. In some modes they will also enter alphanumeric data.

Enter Key

The Enter key is used to start the paging function, and to complete programming where required.

Initial Power Up and Time Set

1. After the transmitter initializes, the set date menu is shown, type in the current date (Using MM/DD/YY) and press ENTER.
2. When the display asks to enter time, type in the current time and select F1 (AM) or F2 (PM).

Basic Paging Operation Guide

The following are the most commonly used procedures for paging. Make sure that all rechargeable guest or staff pagers are not on the charging unit and all battery-operated pagers are turned on.

Page Guest Pagers:

Non-Alphanumeric (AdverTeaser, Pizza, Lobster, Coaster Call pagers)

1. Main screen displays – Guest #: - - - -
2. Enter number assigned to guest at handout.
3. Press ENTER to send page.
4. Return guest pagers to charging unit after paging.

Alphanumeric (Alphanumeric Coaster pager)

1. Main screen displays – Guest #: - - - -
2. Enter number assigned to guest at handout - then press ENTER.
3. Enter message code (000-099). (see Canned Messages Table pg. 8).
4. Press ENTER to send page.
5. Return guest pagers to charging unit after paging.

Page Individual Staff Pagers:

Non-Alphanumeric (Star Pager)

1. On keypad press STAFF (Display will show: Pager #: - - - -).
2. Enter staff pager number to be paged - then press ENTER.
3. Press ENTER to send page.

OR

4. Press F1 (V1), F2 (V2) or F3 (V3) for 1, 2 or 3 vibrations.

Alphanumeric (Alphanumeric, Rechargeable alphanumeric pagers)

1. On keypad press STAFF (Display will show: Pager #: - - - -).
2. Enter staff pager number to be paged - then press ENTER.
3. Enter message code (000-099). (see Canned Messages Table pg. 8)
4. Press ENTER to send page.

OR

5. Press F1 (V1), F2 (V2) or F3 (V3) for 1, 2 or 3 vibrations.

All Call Page:

Page all guest pagers simultaneously.

At (Guest #: - - -) Screen Display:

1. Enter 000 then press ENTER.

All Staff Alpha Page:

Page all staff pagers simultaneously.

1. Press STAFF.
2. Press 9-1-1 then ENTER.
3. Enter message number code (000-099). (see Canned Messages Table pg. 8).
4. Press ENTER to send page.

OR

5. Choose F1 (V1), F2 (V2), F3 (V3) or F4 (Exit) for 1, 2 or 3 vibrations.

All Staff SP4 Page:

1. Press STAFF.
2. Type 0-0-0 then ENTER.
3. Press F1 (YES) to send all page, or F4 (NO) to cancel.
4. Enter a message of 1-9.
5. Press ENTER to send the page.

OR

6. Choose F1 (V1), F2 (V2), F3 (V3) or F4 (Exit) to send 1, 2 or 3 vibrations.

Page a Cell Phone

1. Press Cell Phone and type in guest's cell phone number, then press ENTER.
2. Record the Pager number that appears on the screen.

Note: *Pager number 500 – 999 are reserved for Cell Phone Paging.*

3. When the customer's table is ready, at the Guest Screen, enter the pager number assigned to the customer.

Canned or Special Alphanumeric Messages

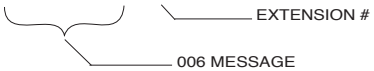
Using Message Codes

When prompted for a message on the T7470 Transmitter (T7470):

1. Enter message number code (and an extension number – optional).
2. Press ENTER.

Example: Send a message to call extension 123.

- From Canned Message Table choose – 006 (Call Ext).
- Enter code 0-0-6-1-2-3 (Displays: CALL EXT 123).



Note: *These non-editable messages are built into the transmitter. If using Alphanumeric pagers, additional messages can be created (see Create Additional Alphanumeric Messages on pg. 16).*

See next page for table of canned messages.

Canned Message

Code	Message
000	Phone Call
001	Sales Call
002	Manager
003	Customer
004	Room
005	Visitor
006	Call Ext
007	MTG Room
008	Lane
009	Aisle
010	Void
011	Stamps
012	Change
013	Station
014	Machine
015	Operator
016	Emergency
017	XX Minutes
018	Tee
019	Pro Shop
020	Starter
021	Service drive
022	Showroom
023	Parked Call
024	Voice Mail
025	Dressing room
026	Price check
027	Department
028	Cashier
029	Office
030	Table
031	Winner
032	Pickup
033	Dock
034	You have mail
035	Table ready
036	No special
037	Hole
038	Kitchen
039	Bar
040	Door
041	Survey
042	T-nnn Q-mm
043	Break
044	Fire
045	Unit
046	Window
047	Nurse
048	Register
049	Owner
050	Check
051	Drink
052	Food
053	Service
054	Seat
055	Booth
056	Lobby
057	Help
058	Restroom
059	Valet
060	Car
061	Bus
062	Bay
063	Low battery
064	Error
065	Exit
066	Fax
067	host
068	Space
069	Location
070	Nursery
071	Teller
072	Officer
073	Buffet
074	Diaper change
075	Child crying
076	To nursery

Special Functions

User Password

All of the functions that adjust paging preferences are protected by a Password.

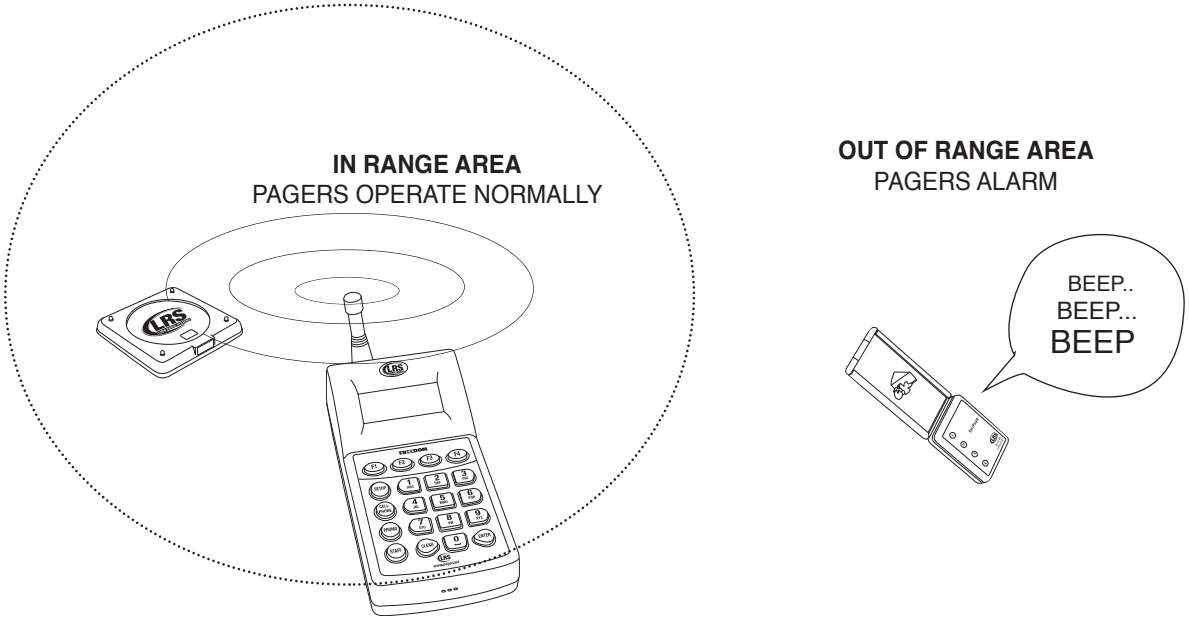
- To reduce tampering with critical settings, the keypad is password protected.
- The Password 56789 allows you to enter most restricted programming screens.
- Press F4 at any menu to return to the Guest menu.

Theft-Deterrent Function

Theft deterrent is used to alert staff and guests that they are leaving the premises while still carrying the coaster/pager.

When Activated:

- The transmitter sends a signal to the coaster/pager, and if the signal is not received, the coaster/pager will emit a continuous beep sound until it is returned to the charging unit or back in range.
- The LED screen on the alphanumeric pagers will display “OUT OF RANGE”.
- When theft deterrent mode is active, a “T” will display on the upper left corner of the transmitter display.



To Activate:

1. Press SETUP and enter Password.
2. Press 1 (SYSTEM).
3. Press 1 (Anti-Theft).
4. Press F1 (YES) to turn theft mode on (Press F2 (NO) to turn off).
5. Main screen display will show “T “ on upper left corner when turned on.

Note: *Anti-Theft does not work with the RX-SP4.*
When Anti-Theft is enable, Repeat Delay is Disabled.

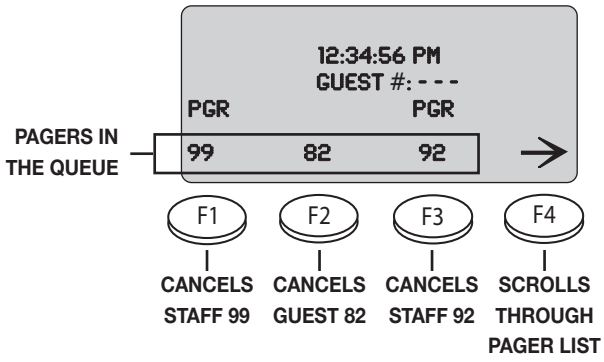
Tracking

This function allows the host to monitor which Guest or Staff pager has been paged, and continues paging, based on a user defined interval and run time setting. The pager number is cleared on the keypad unit when run time is complete or when user clears the number by press the Function Key (F1-F4) under the number.

To turn Tracking on (or off):

1. Press SETUP and enter Password.
2. Press F2 (DN) until screen displays 1) Tracking.
3. Select 1 (Tracking).
4. Select 1) Enable.
5. Press F1 (YES) or F2 (NO).

Transmitter Tracking Screen



To Use Tracking

1. Page the guest or staff pager using the basic paging procedure.
2. The pager number will appear at the bottom of the screen signifying that the pager is being paged.
3. When the page has been received and acknowledged, clear the page by pressing the F1, F2 or F3 key under the pager number shown on the keypad display.
   - If more than 3 pagers are in the queue "→" will be shown at the right of the display.
   - Press F4 to see the rest of the list.

Custom Tracking

Tracking Intervals

The tracking feature can be set to a user defined duration and paging intervals.

Duration

The Duration is the total amount of time the repeated pages will continue for in seconds.

For example, if you choose 120 seconds, the T7470 Transmitter will continue to page at the predefined interval until the overall 2 minutes (120 seconds) is timed out.

The default duration is 90 seconds.

The duration can be set for 0-3600 seconds.

To Set the Duration

1. Press SETUP and enter Password.
2. Press 1) system.
3. Press F2 (DN) until display shows 1) Tracking.
4. Press 1.
5. Select 2) Duration.
6. Type in a new time, in seconds and press ENTER.

Note: *Entering 0 will make the Duration run "Forever"*

Interval

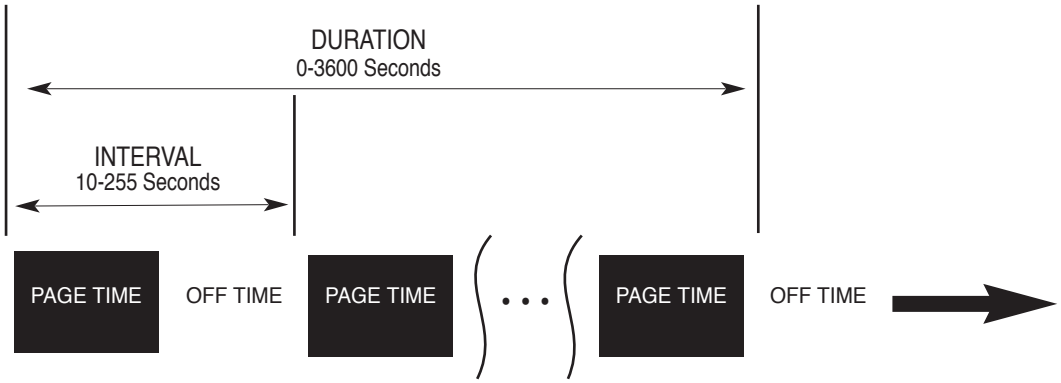
The Interval defines how many seconds of time passes between pages.

The default Interval is 10 seconds.

The Interval can be set from 10-255 seconds.

To set the Interval

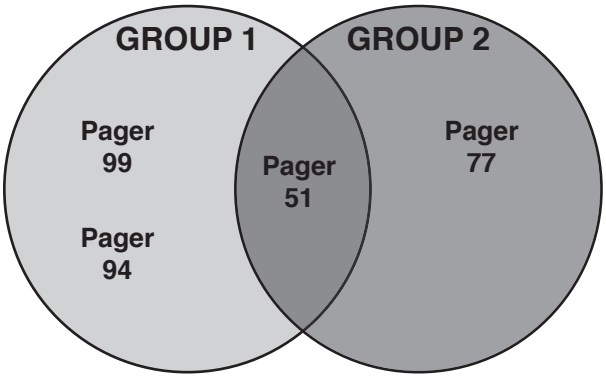
1. Press SETUP and enter Password.
2. Press 1) system.
3. Press F2 (DN) until display shows 1) Tracking.
4. Press 2.
5. Select 3) Interval.
6. Type in a new time, in seconds, and press ENTER.



Group Paging

General Purpose

This function is used with Alpha pagers. These pagers can be programmed to respond to group calls. Ten groups are available and each pager can be a member of 5 groups. Each pager will respond to its individual number and to any groups it belongs to. See example below.



Group Paging Rules

General rules for paging groups are:

- Pagers must be programmed in the group mode.
- Staff pagers must be numbered above 100. (1-99 are reserved for groups)
- Any alphanumeric pager can be a member of up to 5 groups.

Paging Groups

1. Enter the number for the pager or the group.
   - If only paging staff pagers and have the transmitter default set to Pager, enter the pager or group number directly.
   - If paging, default is set to Guest, press Staff before entering the pager or group number.
2. Enter the message to send.
3. Press ENTER.

To Turn Group Paging On/Off

1. Press SETUP and enter the Password.
2. Press 1 (System).
3. Press F2 (DN) until display shows 1) POCSAG.
4. Press F2 Down until screen shows 2) Group Paging
5. Press 2) Group Paging
6. Press F1 (Yes) or F4 (No).

Manager Mapping

The Manager Map function allows the user to store up to 10 manager cell phone numbers to use in situations where the manager's cell phone would be alerted. Example functions would include a times alarm or a triggered Dry Contact. Manager numbers will be stored in pager numbers 501-510.

Note: *Requires cell paging to be enabled.*

1. Press SETUP and enter Password.
2. Press 1 (System).
3. Press F2 (DN) until screen shows 3) Manager Map.
4. Press 3) Manager Map.
5. Type in a pager number 501-510.
6. Type in a manager's cell phone number to correspond to the pager number and press ENTER.

Dry Contacts

The Dry Contact are contacts or switches that are connected through a wire to the T7470, for example: Doorbell. This sensor can send a message to the pager or cell phone when an event occurs (e.g., alarms if a door is opened). To make a Dry Contact alert the manager's cell phone when the contact is triggered: This function requires Network Enabled, cell paging ON, a manager cell phone number mapped, and a valid account. Default setting for the Contact Sensor is OFF. To program the Contact Sensor (Dry Contact):

1. Press SETUP and enter the Password.
2. Press F2 (DN) until the display shows 1: Dry Contact.
3. Select 1 (1: Dry Contact).
4. At the Contact Menu screen - select 1 (1: Prog Contacts).
5. Select contact to program - press 1 (1: Contact #1) or 2 (2: Contact #2).
6. The Screen will show if Contact Sensor is currently on or off:
   - Press F1 to turn the function ON.
   - Press F2 to turn the function OFF.

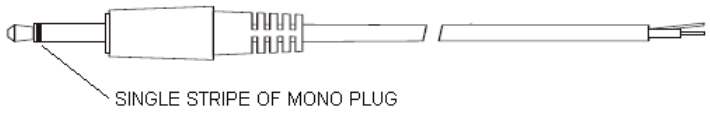
7. If select ON, select for the sensor to set as:
   - Press F4 for Normally Closed (this is the default setting).
   - Press F1 for Normally Open.
8. Enter the pager number that will be pager when this event occurs (Pager Num = - - - -) and press ENTER.
9. Enter a User Message:
   - Press F2 to create a new message, use the 1-9 keys to enter the text, and then press ENTER to Save.
   - Press F1 to edit the current message.
10. Select paging type mode - F1 (STAFF), F4 (GUEST).
11. Press F4 to EXIT.

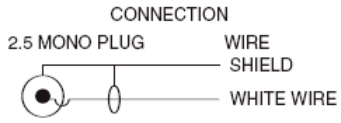
T7470 Dry Contact Specifications:

Input Voltage	0-5 Volts DC
Contact Diameter	2.5 mm
Contact Type	Mono Plug

T7470 Dry Contact Cable Specifications:

Contact Diameter	2.5 mm
Contact Type	Mono Plug
Number of Conductors	2
Ring Connection	Positive
Tip Connection	Ground





Set Alarms

This function is used to set the transmitter to page an individual or all STAFF pagers at a specific time or on a timed interval. The transmitter can send 10 different time alarms or periodic alarms. Alarms may be set to page a specific pager (or all pagers) or cell phone at a specific time every day. To make an alarm contact the manager's cell phone, this function requires Network Enabled, cell phone paging ON, a manager cell phone number mapped, and a valid account.

1. Press SETUP and enter Password.
2. Press 1 (System).
3. Press F2 (DN) until display shows 3) ALARMS.

4. Select 3 (3: ALARMS).
5. From the Alarm menu, select the number of the alarm to set (0 through 9) and press ENTER.
6. The Alarm Display screen shows the status of the selected alarm. Select Change (F1) to enable/disable or modify the alarm.

Note: *If the alarm is already enabled as an interval alarm:*

- Press F1 (YES) to reset the timer and return to the paging menu.
- Press F4 (NO) to continue to the ON/OFF menu.

7. At Enable menu select F1 (YES) to enable the alarm or F4 (NO) to disable the alarm.
8. Select the type of alarm 1 (Interval), 2 (Daily), or 3 (Weekly).

Interval Alarms are alarms that re-page a staff pager at regular intervals.

1. Enter the desired time interval in hours and minutes (HH:MM) and Press ENTER.
2. Enter pager number to be alerted.
3. Type in canned message (See Table on pg. 8) and press ENTER.

Daily Alarms are alarms that re-page a staff pager at a particular time every day.

1. At the Time of Day menu enter the time for alarm.
2. Select F1 (AM) or F2 (PM).
3. Type in pager number to be alerted and press ENTER.
4. Type in canned message (See Table on pg. 8) and press ENTER.

Weekly Alarms are alarms that will page a staff page on a certain day of the week.

1. Select the Day of Week to page. Use F2 (DN) to scroll through Wednesday through Saturday.
2. Enter the Time of Day (HH:MM) for the alarm.
3. Press F1 (AM) and F2 (PM).
4. Type pager number to page and press ENTER.
5. Type in canned message (See Table on pg. 8) and press ENTER.
6. At Set pager Number menu, either:
   - Enter the number of the pager to be alarmed followed by ENTER.

   OR

   - Press F1 (KEEP) to use the existing number.

Note: *Entering pager number 911 will page all Alpha pagers.*

Feature Setup Procedures

User Password

All of the functions that adjust paging preferences are protected by a Password.

- To reduce tampering with critical settings, the keypad is password protected.
- The Password 56789 allows you to enter most restricted programming screens.
- Press F4 at any menu to return to the Guest menu.

Set Manager Password

To change the Manager Password:

1. Press SETUP and enter Password.
2. Press F2 (DN).
3. Select 2) Manager Password.
4. Type in new 5 digit Manager Password and press Enter.

Set Page Mode

This programs how guest and staff pagers will respond when paged. Guest pagers can flash, beep, glow, flash and beep, etc. To set the modes:

1. Press SETUP and enter Password.
2. Press F2 (DN).
3. Select 3) Page Mode.
4. Select 1 (1:Guest) or 2 (2:Staff).

Guest Pager - Select:

Note: *An asterisk next to a mode indicates that is the current Paging Mode.*

Press 1) Flash/Beep/Glow.

Select a page Mode.

1) Flash 30 sec.
2) Flash 5 mins.
3) Beep/Flash.

Press F2 (DN).

1) Flash 1 sec.
2) Glow 15 times.
3) Glow 5 mins.

Press F2 (DN).

1) Beep 3 times.

2) Beep continuously.

To turn Alphanumeric Guest Paging Vibration On or Off:

Select 2) Alphanumeric Vibe.

Press F1 (yes) to turn Alphanumeric Vibration On of F2 (No) for Off.

Manager Pager - Select:

1) Vibe 1 time.
2) Vibe 2 times.
3) Vibe 3 times.

F2 (ON)

1) Vibe continuously.
2) Vibe/Beep 1 time.
3) Vibe/Beep 2 times.

F2 (ON)

1) Vibe/Beep 3 times.
2) Beep 3 times.
3) Beep continuously.

Set to Page Staff or Guest Pagers

In cases where the unit will always be paging staff pagers, the transmitter default can be set to page either Guest or Staff pagers. Factory default is Guest:

1. Press SETUP and enter Password.
2. Select 1 (1: Default Mode).
3. Select 1 (Guest Paging) for guest pager or 2 (Staff Paging) for staff pager.

Create Alphanumeric Messages

If your staff pagers are alphanumeric, they can display 77 different pre-set messages (numbered 000 through 076), and 22 additional user-defined messages of up to 32 characters per message (077 through 099).

1. Press SETUP and enter Password.
2. Press 3) Other.
3. Press 1) Canned Message.
4. At the Canned Msg.# screen select F3 (EDIT) to edit message, (use (F1 (up) or F2 (DN) to scroll through messages to edit).
5. If no message exists at the Edit Message screen, type a new message. If a message exists, press F3 (EDIT) to change it. Enter the desired message using the number keys, waiting until the cursor moves between letters (i.e. for letter 'E' press #2 twice). Similar to a Cell Phone.
6. Press the ENTER key to save your message.

Setting Time and Date for T7470 Transmitter

Set Date:

1. Press SETUP and press 1) System enter Password.
2. Press 3) Date/Time.
3. Press 3) Set Date.
4. Enter Date (MM/DD/YY) (e.g. March 11, 2010 = 03/11/10) and press ENTER.

Set Time:

1. Press SETUP and enter Password.
2. Press 3) Date/Time.
3. Press F2 (DN).
4. Press 1) Set Time.
5. Enter Time (--:--) (e.g. 08:30) and select F1 (AM) or F2 (PM).

Time Format:

1. Press SETUP and enter Password.
2. Press 3) Date/Time.
3. Press 2) Time Format.
4. Select 1) 12 hour or 2) 24 hour.

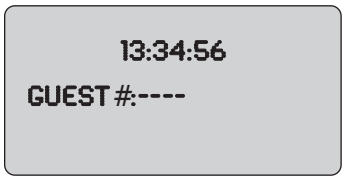
Note: *Asterisk next to an option indicates the current operation mode*

Date Format:

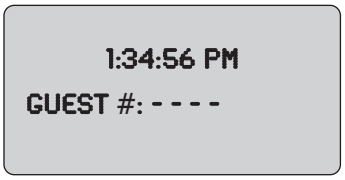
1. Press SETUP and enter Password.
2. Press 3) Date/Time.
3. Select 1) Date Format.
4. Select 1) MM/DD/YY or 2) DD/MM/YY.

Note: *Asterisk next to an option indicates the current operation mode*

24 HOUR TIME ON DISPLAY



12 HOUR TIME ON DISPLAY



T7470 Transmitter Screen

Repeat Delay

When using a repeater, it may be necessary to add a delay between pages when paging multiple pagers to allow the repeater time to repeat the signal and detect the next one. To add repeat delay:

1. Press SETUP.
2. Enter Password.
3. Press 1) System.
4. Press F2 (DN) until the display shows 2) Repeat Delay.
5. Press 2 (2: Repeat Delay).
6. Select F1 (Yes) to enable or F4 (No) to disable.

Note: *If Repeat Delay is enabled, Anti-Theft will be disabled.*

ID Span

In very large systems up to 9999 Guest pagers can be paged. To do this, ID Span is required. This function disables normal System ID functions except for Staff Paging and allows the programming of Guest Pagers from 1000 to 9999.

To use ID Span:

1. Press SETUP.
2. Enter Password.
3. Press 3) Other.
4. Press 2) ID Span.
5. Select F1 (YES) to enable or F4 (NO) to disable.

Alphanumeric Pager Button Enable/Disable

The buttons on an Alpha Pager can be enabled or disabled.

1. Press SETUP and enter Password.
2. Press 1 for 1) System.
3. Press F2 (DN) until 1)POCSAG-> is displayed.
4. Press 1 for 1)POCSAG->.
5. Press 2 for 2) Btns Enabled.
6. Press F1 (Yes) to enable Alpha Pager buttons, or press F4 (No) to disable Alpha Pager buttons.

Alpha Pager Vibration Level

The strength of vibration when an Alpha Pager receives a Vibration Alert can be varied.

1. Press SETUP and enter Password.
2. Press 1 (System).
3. Press F2 (DN) until screen show 1 (POCSAG).
4. Press 1 (POCSAG).
5. Press F2 (DN) until screen displays 3 (Vibe Strength).
6. Press 3 (Vibe Strength).

7. Press F1 (UP) to increase the level or F2 (DN) to lower the level.
8. Press F4 (Done) when finished.

Guest Message

The Guest Message is the default canned message sent to Guest Alpha Pagers. To change the message.

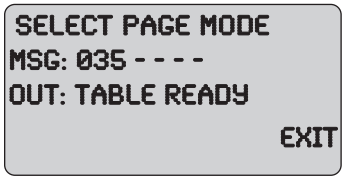
1. Press SETUP and enter Password.
2. Press 1 for 1) System.
3. Press F2 (DN) until 1)POCSAG-> is displayed.
4. Press 1 for 1)POCSAG->.
5. Press 3 for 3) Guest Message.
6. Type a number 00-99 for selected canned message and press ENTER.

Note: *See pg. 16 for Creating Alphanumeric Messages.*

Display the Guest and Staff Prompt

When paging Guest or Staff Alpha Pagers, the user is shown a prompt:

T7470 Transmitter screen Display



To Enable or Disable Seeing This Prompt While Paging:

1. Press SETUP and enter Password.
2. Press 1 (System).
3. Press F2 (DN) until screen shows 1 (POCSAG).
4. Press 1 (POCSAG).
5. Press F2 (DN) until screen show 1 (Msg Editing).
6. Press 1.
7. Press 1 to select Guest or Staff.
8. Press 3) Auto send.
9. Press F1 (Yes) or F4 (No).

If Display Prompt is disabled, the message sent will default to the Guest or Staff Message.

Using Canned Messages in Staff and Guest Display Prompt

The user has the option of how the Canned Message can be used as part of the Guest or Staff Display Prompt.

Default Canned

The user can type and edit the message, but the message starts with a precanned message.

1. Press SETUP and enter Password.

2. Press 1 (System).
3. Press F2 (DN) until screen shows 1 (POCSAG).
4. Press 1 (POCSAG).
5. Press F2 (DN) until screen shows 1 (Msg Editing).
6. Press 1 (Msg Editing).
7. Select Guest or Staff
8. Press 1) Default Canned

Blank Canned

The user can type any number based message within the prompt. (ex: 011 222 will display as Stamps 222)

1. Press SETUP and enter Password.
2. Press 1 (System).
3. Press F2 (DN) until screen shows 1 (POCSAG).
4. Press 1 (POCSAG).
5. Press F2 (DN) until screen shows 1 (Msg Editing).
6. Press 1 (Msg Editing).
7. Select Guest or Staff
8. Press 2) Blank Canned

Autosend

The transmitter will not bring up a prompt for the Guest or Staff Mode and will immediately send the set pre-canned message.

1. Press SETUP and enter Password.
2. Press 1 (System).
3. Press F2 (DN) until screen shows 1 (POCSAG).
4. Press 1 (POCSAG).
5. Press F2 (DN) until screen shows 1 (Msg Editing).
6. Press 1 (Msg Editing).
7. Select Guest or Staff
8. Press 3) Autosend

Freeform Message

The display will allow the user to input any message using the 0-9 keys.

1. Press SETUP and enter Password.
2. Press 1 (System).
3. Press F2 (DN) until screen shows 1 (POCSAG).
4. Press 1 (POCSAG).
5. Press F2 (DN) until screen shows 1 (Msg Editing).
6. Press 1 (Msg Editing).
7. Select Guest or Staff
8. Press F2 (Down)
9. Press 1) Freeform

Append Message

The display will show the default canned message and the user can only enter numbers after the message in the display prompt. The user will be unable to edit the canned message.

1. Press SETUP and enter Password.
2. Press 1 (System).
3. Press F2 (DN) until screen shows 1 (POCSAG).
4. Press 1 (POCSAG).
5. Press F2 (DN) until screen shows 1 (Msg Editing).
6. Press 1 (Msg Editing).
7. Select Guest or Staff
8. Press F2 (Down)
9. Press 2) Append

Staff Message

The Staff Message is the default canned message sent to Staff Alpha pagers.

To change the message:

1. Press Setup and enter Password.
2. Press 1 (System).
3. Press F2 (DN) until screen shows 1 (Manager Msg).
4. Press 1 (Manager Msg).
5. Type number 00-99 for selected canned message and press ENTER.

Note: *See pg. 16 for creating Alpha Messages.*

Alpha Pager Communication Baud Rate

LRS Alpha Pagers use a 1200 bit per Second Baud Rate as the default communication Baud Rate. In scenarios where this is required to be changed to 512-2400 BPS.

1. Contact LRS first for accesss code.
2. Press Setup and enter LRS Password.
3. Press 1 (System).
4. Press F2 (DN) until screen shows 1) POCSAG.
5. Press 1 (1: POCSAG).
6. Press F2 (DN) untill screen shows 1) OTA Baud Rate.
7. Press 1) OTA Baud Rate.
8. Select new Baud Rate.

Maintenance Functions

Caution: *The following features are not normally adjusted unless directed by LRS.*

Paging Types in Mixed Systems

When using different types of pagers, be sure that alphanumeric pagers are numbered higher than the non-alphanumeric pagers.

Setting Crossover Points

This function is used to set the crossover points where non-alphanumeric end and alphanumeric pagers begin. Crossover points must be set using the following rules:

The default crossover point for Staff Pagers is 50.

- 50 and above are Alphanumeric Pagers.
- Below 50 is for Star Pagers.

The default crossover point for Guest Pagers is 1000.

- 1000 and above for Alphanumeric Coasters.
- Below 1000 for Coaster Call and Paddle pagers (AdverTeaser).

To Change the Crossover Points:

1. Press SETUP and enter Password.
2. Press 1) System.
3. Press F2 (DN) until display shows 1) POCSAG.
4. Press 1 (1: POCSAG).
5. Press F2(DN) until 2)POCSAG Start is displayed.
6. Press 2) POCSAG Start.
7. For Guest Alphanumeric Pagers, press 1) Guest and type in the new POCSAG start number from 1 – 9999.
8. For Staff Alphanumeric Pagers, press 2) Staff and type in the new POCSAG start number 1-9999. Choose number from 1 – 9999. Press ENTER to keep a default value - 50.

Station ID

Station ID is often confused with System ID. This function is used where more than one station of the same establishment may be paging staff pagers. The indicators on the pager will show this code.

To set a different station number:

1. Press SETUP and enter Password.
2. Press 1) System.
3. Press F2 (DN) until the display shows 3) Station ID.
5. Press 3 (3: Station ID).
6. The display shows the current station ID number (default is 1).
7. Press a number to use (0 – 9) to change the default Station ID number and press ENTER.

Adjust Transmit Power

The range may be increased or decreased from the transmitter by adjusting the transmit power level. The

power levels are 1 through 5. *Default from the factory is power level 3. Reset only by direction from LRS.*

To set the power level:

1. Press SETUP and enter Password.
2. Press 1) System, press F2 (DN) until the display shows 2) Transmit Power.
5. Press 2 (2:Transmit Power).
6. Set the required power level (from 1 through 5).
7. Press ENTER.

Locating Misplaced Pagers

Two location modes are available for finding lost or misplaced pagers/coasters. Auto Locate Mode automatically searches at a preset time, Run Locate Mode searches on demand.

CAUTION: *Do not set auto locate to run or use Run Locate feature while pagers are handed out. All pagers will be paged!*

Auto Locate Mode

Auto Locate sends a signal to ALL coasters/pagers at a preset time. The coasters/pagers will beep so that staff can locate them.

Example: If closing at 11:30PM, the transmitter can be set to auto locate at 12:30AM, causing all missing coasters/pagers to beep at that time.

When activated:

- A signal is sent out to ALL coaster/ pagers.
- Pagers will Beep or Flash until the pagers are placed on the charging unit or the batteries go dead. In the case of battery operated pagers, the battery must be removed to stop the beeping.

To activate:

1. Press SETUP and enter Password.
2. Press 3 (OTHER.
3. Press F2 (DN).
4. Choose 1 (1:Auto Locate) to program auto locate.
5. Press F1 (YES) to turn Auto-Locate mode on or press F2 (NO) to turn off.
6. If turning function ON, enter a starting Time of Day for Auto Location (HH:MM).
7. Press F1 (AM) or F2 (PM).

If turning function ON:

8. Enter Start Time for Auto Location (- -: - -) and press ENTER to continue.
9. Press F1 (AM) or F4 (PM).

Run Locate Mode

Run locate is used to immediately locate any misplaced coasters around the restaurants (ideal during closing hours).

When activated:

- A signal is sent out to ALL guest pagers.
- Pagers will Beep or Flash until returned to charging unit or batteries removed.

To activate

1. Press SETUP and enter Password.
2. Press 3 (OTHER).
3. Choose 3 (Locate Pagers).
4. Press ENTER to begin locating pagers.

Cell Phone Paging/Messaging

Overview

The Cell Phone interface is used to extend the capability of the on-premise paging system allowing you to notify people on their cell phones.

Cell phone paging is an optional service. This service is not required for normal over-the-air UHF paging operations.

When a Guest's Cell Phone number is entered, the transmitter will store the number as a Pager Number between 500 and 999.

System Requirements

Cell Phone Paging requires broadband internet service, a CAT-5 Ethernet cable, and a contract with Long Range Systems. If you would like to utilize cell phone messaging, please contact your local LRS office or call 800.437.4996.

Two Steps to enable the Cell Phone Paging:

Step 1

1. Disconnect power to the T7470.
2. Connect the CAT-5 cable to the Ethernet port.
3. Re-connect power to the T7470.
4. Press SETUP and enter Password.
5. Press 1) System.
6. Press 2) Cell Phone Paging.
7. Press 1) Enabled.
8. When asked to Enable voice/SMS paging, press F1 (Yes) or F4 (No).
9. Exit.

Step 2

1. Press SETUP and enter Password.
2. Press 3) Other.
3. Press F2 (Down).
4. Press 3) Network.
5. Press 1) Configure Network.
6. Press 2) Enabled
7. Press F1 (Yes) to enable or press F4 (No) to disable Network.

For Users on DHCP Network

From Step 7 when screen displays Network Type.

1. Press 1) DHCP.

For Users on Static Network

For users on a Static Network, the user will need a valid IP Address available on their internal network. Contact your local Network Administrator for an available IP address.

Note: *If an IP Address has one or two digits, the address must be written out fully (example 192.168.7.17 must be entered 192.168.007.017.)*

From Step 7 when screen displays Network Type.

1. Press 2) Static.
2. Enter IP Address to assign for the T7470 Transmitter on Network and press ENTER.
3. Enter Netmask address for the T7470 Transmitter on Network and press ENTER.
4. Enter default gateway address for the T7470 Transmitter on Network and press ENTER.
5. Enter DNS address for the T7470 Transmitter on Network and press ENTER.

To select if a Guest receives an SMS text message or a Voice recording

1. Press SETUP and enter Password.
2. Press 1) System.
3. Press 2) Cell Phone Paging.
4. Press 2) Type.
5. Press 1 for SMS Text or 2 for Voice Message.

Note: *Long Range Systems must setup the SMS Text or Voice Message before this feature can be used. If the user wishes to change the Message or type of message, contact Long Range Systems.*

Cell Phone Status

To view the current link status of the T7470 Transmitter:

1. Press SETUP and enter Password.
2. Press 1) System.
3. Press 2) Cell Phone Paging.
4. Press 3) Status.
5. The screen will now show the current Cell Status. If the Status is OK, then the link is successful.

Programming Pagers

Pager numbering and mode setup is used to renumber or set up individual pagers.

Note: *Be sure to refer back to "Paging Types in Mixed Systems" section to ensure that pagers are programmed using appropriate crossover points.*

Individual Pagers

Note: *Rechargeable pagers can have their System ID's changed or their vibration turned on or off as a group.*

1. Press SETUP and enter Password.
2. Press F2 (DN).
3. Press 1 (1: Program).
5. Press 1 (1: Prg Pager).
7. At the Select Type menu, select the basic type of pager you are re-programming (Guest pagers or Staff pagers).

Non-Alpha Guest Pagers (AdverTeaser (Paddle Pager), Coaster Pager, Pizza Pager, Lobster Call)

This procedure is repeated for each pager being programmed. Two charging bases are suggested for programming Coasters, Pizza pager, Lobster Call.

1. Place all guest pagers to be programmed on one charger base, leave the second base empty. Paddle pagers may be replaced into the same slot in the charger.
2. Complete the steps for programming "individual Pagers".
3. At the Select Type menu, press 1 (1: Guest Pagers).
4. Enter Pager Number and press Enter.
5. Select Pager type 1) Coaster Page or 2) Paddle Pager.
6. Select if Pager should Vibrate F1 (Yes) or F4 (No.)
7. Remove the guest pagers from the charger.
8. When flashing stops, press ENTER.
9. The coaster/pager will slowly vibrate and light up then dim to off to indicate it is being programmed.
10. When programming is finished, put the coaster on the second charging base or the Paddle pager back into its slot.
11. Repeat steps 2 through 10 for the remaining coasters/pagers.
12. When finished remove all of the coasters/pagers from the charging base and page each one.
13. Reprogram any that do not page.

Guest Alpha Coasters

This procedure is repeated for each pager being programmed. Two charging bases are suggested for programming Alpha Coasters.

Note: *Guest Alpha Pagers numbers must be above POCSAG start.*

1. Put all coasters to be programmed on one charger base, leave the second base empty.

2. Complete the steps for programming “individual Pagers”.
3. At the Select Type menu, press 1 (1: Guest Pagers).
4. Enter Pager Number and press ENTER.
5. Remove the coaster from the charger.
6. When flashing stops, press ENTER.
7. The pager will beep four times to indicate it is being programmed and the screen will display:
   Example: System ID = 0, Pager ID Number = 99, All Page = 911
   - [0]123 prg Single
   - [0]911 prg All Page
   - [0]0 prg System
8. Repeat steps 2 through 7 for the remaining coasters.
9. When finished, remove all of the coasters from the charging base and page each one.
10. Reprogram any that do not page.

Staff Pagers (Star Type)

This procedure is repeated for each pager being programmed. Pagers may be replaced into the same slot in the charger.

1. Place all Pagers to be programmed in the charger.
2. Complete the steps for programming “individual Pagers”.
3. At the Select Type menu, press 2 (2: Staff).
4. At Enter ID --- enter the number you wish to assign to the Pager and press ENTER.
5. Select if Pager should Vibrate F1 (Yes) or F4 (No).
6. Remove the Pager from the Charger.
7. When the Flashing Stops, press ENTER.
8. The Pager will slowly Brighten and Dim to Off to indicate it is being Programmed.
9. When Programming is finished, return the Pager to its Charging Base.
10. Repeat Steps 1 through 9 for the remaining Pagers.
11. When finished, remove all of the Pagers from the Charging Base and Page each one.
12. Reprogram any that do not page.

Staff Pagers (Rechargeable Alpha Pagers)

This procedure is repeated for each pager being programmed.

Note: *Staff Alpha Pagers numbers must be above POCSAG start.*

1. Place pagers in charger.
2. Complete the Steps for Programming “Individual Pagers”.
3. At the Select Type menu, press 2 (2: Staff).
4. At Enter ID --- enter the number you wish to assign to the Pager.
5. Remove the Pager from the charger.
6. At the screen display “Reset Pager. When Pager Stop...” press ENTER.
7. The pager will Vibrate and/or Beep.
8. When the Vibration/Beeping Stops, press ENTER again.
9. The Pager will beep three times to indicate it is being programmed and the screen will display:
   Example: System ID = 0, Pager ID Number = 99, All Page = 911

- Prg C1: [0]99
- Prg C2: [0]911
- Prg C3: [0]0

10. Return the Pager to the Charger when Programming is complete.
11. Repeat Steps 2 through 10 for the remaining Pagers.
12. When finished, remove Pagers from the Charger and Page each one.
13. Reprogram any Pagers that do not page.

Staff Pagers (Battery Operated Alpha Pagers)

This procedure is repeated for each pager being programmed.

Note: *Staff Alpha Pagers numbers must be above POCSAG start.*

1. Turn all of the Pagers Off (or remove batteries).
2. Complete the steps for Programming “individual Pagers”.
3. At the Select Type menu, press 2 (2: Staff).
4. At Enter ID --- enter the number you wish to assign to the Pager.
5. Turn the Pager Off and then On (or reinstall the battery).
6. At screen display “Reset Pagers. When Pagers Stop...” press ENTER.
7. It will Vibrate and/or Beep.
8. When the Vibration/Beeping Stops, press ENTER again.
9. The Pager will beep three times to indicate it is being Programmed and the screen will display:
   Example: System ID = 0, Pager ID Number = 99, All Page = 911
   - Prg Single [0]99
   - Prg All Page [0]911
   - Prg System [0]0
10. Repeat Steps 2 through 9 for the remaining Pagers.
11. When you're finished programming, send a test page to each pager.
12. Repeat the programming procedure for any pagers that do not page.

Program Pager Groups

Group Paging must be enabled.

Note: *Only LRS alpha pagers can be assigned groups and be programmed from the transmitter.*

1. Turn all Pagers Off (or remove batteries) or Place unit in Charger.
2. Complete the steps for individual Pagers.
3. At select type menu, press (2: Staff).
4. At enter ID, enter the number you wish to assign to the Pager.
5. At enter Groups, enter the Group Numbers you which to assign the Pager to and press ENTER.
6. Turn Pager or Remove pager from charger.
7. At screen displays “Reset Pagers. When Pagers Stop...” press ENTER.
8. The Pager will beep three times and additional beeps for each Group Number and Group Name assigned.
   Example: System ID = 0, Pager ID Number = 99, All Page = 911, Group = 1, 2
   [Group numbers will display across the screen as you enter them]

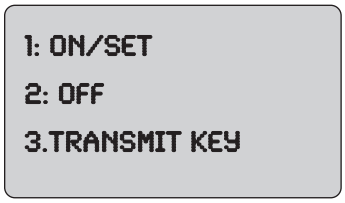
- Prg Single [0]99
- Prg All Page [0]911
- Prg System [0]0
- Group [1] 1
- Group [2] 2

9. Return the Pager to the Charger when done (If rechargeable).
10. Repeat steps 2 through 8 for the remaining Pagers.
11. When finished, remove Pagers from the Charger and Page each one.
12. Reprogram any Pagers that Do Not Page.

Alpha Encryption

- Only LRS Alpha pagers can be encrypted and be programmed from the transmitter
- Encryption does not change the pager numbering

1. Press Setup.
2. Enter Access Code.
3. Press the F2 (DN) until the display shows 2: Encryption.
4. Press 2 (2: Encryption).
5. Select:



1 (1: On/Set) to enable encryption and set new encryption key
- Enter 16 double digits (Note: all ff will disable the key)
  (Example: 11:12:13:44:11:11:11:11:11:11:11:11:11:11:11:11)
- Press ENTER when finished with each line.
- Follow instructions on display.
- Turn the pager off then on.
- When it stops vibrating, press ENTER (note more than 1 pager can be encrypted at once).
- Screen will display “Transmitting Key”.
- Pager will beep once and display “Pgr Encryption 128-bit”.

2 (2: Off) to disable encryption
- The display shows “Transmit Key Now?” press the F1 (YES) key to send or F4 (NO).
- Follow instructions on display.
- Turn the pager off then on .
- When it stops vibrating, press ENTER.
- Screen will display “Transmitting Key”.
- Pager will beep once and display “Pgr Encryption None”.

3 (3: Transmit Key) to send the current encryption key to pagers.
- Follow instructions on display.

- Turn the pager off then on.
- When it stops vibrating, press ENTER.

Note: *more than 1 pager can be encrypted at once.*

- The unit will wait 5 seconds and send out the signal.
- The screen will display “prg encryption none” (or 128 bit key) then “Transmitting Key”.
- Continue this procedure with the remaining pagers.

Program Pager Vibration

The Program Vibration feature can program a set of Guest or Staff Pagers all at once to Vibrate or not Vibrate when paged.

1. Be sure All Pagers are on the Charger.
2. Press Setup and enter Password.
3. Press F2 (DN).
4. Press 1 to select 1) Program.
5. Press 2 to select 2) Prg Vibe.
6. Press 1 to select Guest Pagers or 2 to select Staff Pagers.
7. If selected Guest, select 1 for Coaster Pagers or 2 for Paddle Pagers.
8. Press F1 (YES) to enable Pager to Vibrate, or F4 (NO) to prevent the Pager from Vibrating.
9. Unplug the charger power supply.
10. When Pagers finish flashing, press ENTER.
11. Pagers will slowly brighten and dim to off to indicate they are being Programmed.

Note: *Pagers will vibrate during glowing if vibration is enabled and will not vibrate if vibration was disabled.*

12. When finished, plug the charger power supply back in.

Program Welcome Message

The Welcome Message on a Staff 4-Line Alpha pager can be customized to show something new when the Pager is powered on.

1. Press SETUP and enter Password.
2. Press F2 (DN).
3. Press 1 to select 1) Program.
4. Press 3 to select 3) Prg Welcome.
5. Type in New Welcome Message and press ENTER.

Note: *The welcome message has a 32 character limit.*

6. Turn off and then turn on Alpha Pager.
7. Press ENTER.
8. Pager should Beep Once to indicate programming.
9. Cycle power on Pager to view New Message.

System Specifications

Transmitter

Required voltage: One 110/220V outlet for the pager keypad.

Operating Frequency: 467.750 MHz

Operating Range: Dependent upon pagers used, topography and environment.

Battery Powered Pagers

Required voltage: One AAA Alkaline battery for the pager.

Rechargeable Pagers

Required Voltage: (1) 110/220V outlets for pager charging base

Battery Type: Nickel Metal Hydride (NiMH). Rechargeable.

Lifetime of Batteries: Approximately 3-5 years. (depending on usage).

Battery Charge Life: Approximately 12 - 48 hours (depending on usage).

Recharge Time: Typically 8 hours depending on usage (24 hours minimum from completely “dead”).

Troubleshooting

Display Shows Nothing

Be sure power supply is plugged in.

- If yes
  - Be sure power supply is good. Substitute the transmitter power supply with the charger supply.
  - Be sure the outlet circuit is on.
  - Unplug and re-plug a few times to be sure the unit doesn't need a reset.
- If no – plug it in.

Remedy

If power supply is good call LRS to troubleshoot further.

If power supply is bad call LRS to order a power supply.

Pagers Do Not Receive Pages

Be sure pagers are ON, Awake, Charged or have Good Batteries

- Try paging more than one pager to be sure it's not a faulty pager.

Battery Powered Pagers Don't Receive Pages

1. Be sure the pager is turned on and that the battery is good
2. If pagers do not turn on, replace battery and retry
3. If pagers do turn on, and still do not receive a page, check transmitter

If pagers continue to not receive pages, contact LRS.

My Cell Phone Paging Is Not Working

1. Do you have an account setup with Long Range Systems for a voice/SMS messaging service?

If Yes, proceed to Step 2.

2. Check Network cable and make sure both ends are plugged in. Green Light will be lit, and the Orange Light should blink to indicate connectivity.
3. Access the Cell Paging Menu, and make sure Cell Paging is ENABLED.
4. Access the Network Menu, and verify that the Network is ENABLED.
5. If using a DHCP Network, verify DHCP is selected as YES.
6. If using a Static Network, verify DHCP is selected NO, then verify the transmitter's IP, Netmask, DNS, and Gateway addresses are entered correctly.

Service Questions and Answers

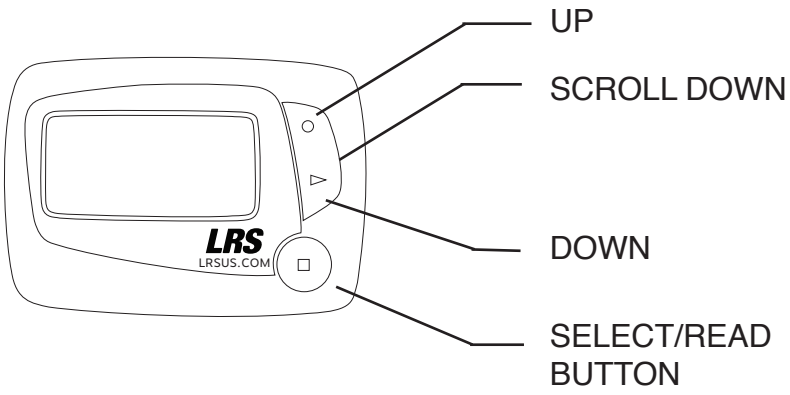
Should your paging system ever fail or should you need additional paging equipment, call Long Range Systems at (800) 437-4996 or (214) 553-5308 (24/7 days a week)

For weekend or night emergencies:

- Long Range Systems has 24/7 live technical support available.
- Please keep in mind that options are limited over the weekend.

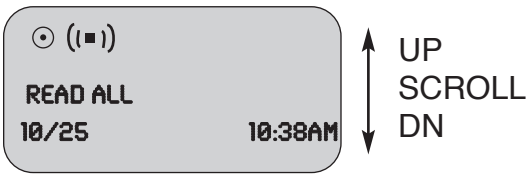
LRS Pagers Available for the T7470 Transmitter

Using the 4-Line Alphanumeric Pager



Menus

Alphanumeric Pager Screen



1. From Read All screen, press UP (or DN) Scroll button until desired selection displays
2. Press Read/Select button to select item
3. Press UP (or DN) Scroll button to choose/adjust
4. Press Read/Select to confirm/set

Power On/Off

Set ON (if unit is off)

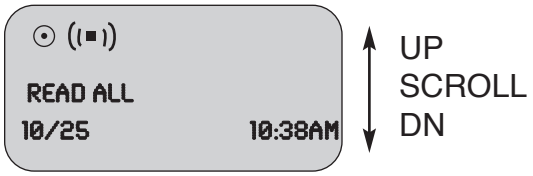
1. Press and hold Scroll Up until YES/NO shows.
2. At “Power ON?” use UP (or DN) Scroll button to select YES
3. Press Read/Select button to set

Set OFF

1. Using the UP (or DN) scroll button scroll until display shows “Power OFF?”
2. Press Read/Select button to set power on/off
3. At “Power OFF?” screen, use UP (or DN) Scroll button to select YES
4. Press Read/Select button to set

Read Message

Alphanumeric Pager Screen



- Messages are displayed upon receipt.
- Press Read/Select to display.

To Review Stored Messages:

1. Select “Read All?”.
2. Press Read/Select to display messages and time stamps.
3. Use the UP (or DN) Scroll button to scroll through messages.

Delete Messages

1. Using the UP (or DN) scroll button, scroll until display shows “Delete All?”.
2. Press Read/Select.
3. Use the UP (or DN) scroll button to select Yes or No.
4. Press Read/Select button to confirm.

Time/Date Set

1. Using the UP (or DN) scroll button scroll until display shows “Set Time/Date”.
2. Press Read/Select to set time/date.
3. Press UP (or DN) scroll button to set each time or date segment and press Read/Select to move through the segments.

Set Contrast

1. Using the UP (or DN) scroll button scroll until display shows “Set Contrast”.
2. Press Read/Select.
3. Use the UP (or DN) scroll button to adjust.
4. Press Read/Select to confirm.

Auto ON/OFF

1. Using the UP (or DN) scroll button scroll until display shows “Auto ON/OFF”.
2. Press Read/Select to set auto on/off.
3. Use the UP (or DN) scroll button to select On or Off.
4. Press UP (or DN) scroll button to set on/off time and press Read/Select to move through the segments.

Set Key Tone On/Off

1. Using the UP (or DN) scroll button scroll until display shows “Set Key Tone”.
2. Press Read/Select to set key tone on/off.
3. Use the UP (or DN) scroll button to select On or Off.
4. Press Read/Select to set.

Select Alert Mode

1. Using the UP (or DN) scroll button scroll until display shows “Set Alert Mode.”
2. Use the UP (or DN) scroll button to select Beep, Vibe, or Both.
3. Press Read/Select to set:

Beep - Use the Up (or DN) scroll button to select:

- Select Beep Type - Loud or Soft and press Read/Select to set.
- Set Alert Time (seconds) and press Read/Select to set.

Vibe - Use the Up (or DN) scroll button to select:

- Set Vibe strength - Strong or Weak and press Read/Select to set.
- Set Vibe Pulse - Cnst, P1, P2 or P3 and press Read/Select to set.
- Set Alert Time (seconds) and press Read/Select to set.

Both - Use the Up (or DN) scroll button to select:

- Set Vibe strength - Strong or Weak and press Read/Select to set.
- Set Alert Time (seconds) and press Read/Select to set.

Battery

The RX-E 4-Line Alphanumeric pager uses 1 AAA Battery.

Programming

To program the pager see pg. 29

Using the Star Pager

Charging

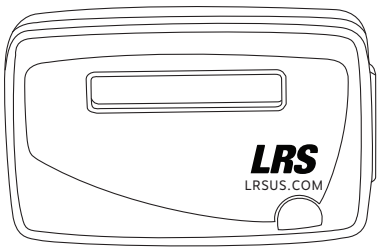
Any rechargeable pager will require use of an LRS charger.

1. Place the pager in the charger.
2. Allow unit to fully charge overnight.
3. Remove from charger, and pager will vibrate and light all lights as a verification that it is working.
4. Replace the pager in the charger at the end of each day.
   - Star Pagers uses the charger 9 (CH-R9)

Programming

To program the pager see pg. 28

Using the SP5 1-Line Rechargeable Alphanumeric Pager



Charging

The SP5 uses the Charger 5 (CH-R5)

1. Place the pager in the charger.
2. Allow unit to fully charge overnight.
3. Remove from charger, pager will vibrate or beep to show it is working.
4. LCD will show the pager's ID.
5. Replace the pager in the charger at the end of each day.

Menus

To access the vibe/contrast menu, remove the pager from the charger. While vibrating or beeping, press and hold the Select button for 8 seconds. This top-level menu will display:

SP5 Pager Screen

If you PRESS and RELEASE the SP5 pager button the menu will change to:

SP5 Pager Screen

To exit this menu wait 8 seconds.

To re-enter the vibe/contrast menu at any time, reset the pager, and then hold the SP5 pager button.

Vibe

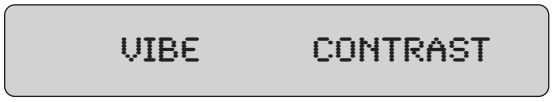
To set the Vibration Level

1. Enter the vibe/contrast menu as described above.
2. Highlight the Vibe selection then PRESS and HOLD the SP5 pager Button until the screen shows.

SP5 Pager Screen

3. Press or hold the Select Button to the desired vibration level. The level will rise to max, Release the Select Button and press or hold again until the level goes to minimum or desired level.
4. To exit, wait 8 seconds. And the pager will go back to the vibe/contrast menu.

SP5 Pager Screen

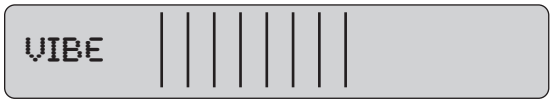


Contrast

To set the Contrast Level

1. Enter the vibe/contrast menu as described above.
2. Highlight the Contrast selection then PRESS and HOLD the SP5 pager Button until the screen shows.

SP5 Pager Screen



3. Press or hold the Select Button to the desired Contrast. The level will increase to max (NOTE: screen could be dark and hard to read), Release the Select Button and press or hold again to change the level back towards the minimum or to desired contrast.
4. To exit, wait 8 seconds. And the pager will go back to the vibe/contrast menu.

SP5 Pager Screen

5. To exit this menu wait 8 additional seconds.

Settings

To view the current pager settings

1. Remove pager from the charger or reset on the T9601, T9100, or T9101 reset terminals.
2. Press the Select Button repeatedly to scroll through the settings:
   - C1: [System ID number] and Pager ID number
   - C2: [System ID number] and All Page number
   - C3: [System ID number] and System ID number
   - G: Group number
   - Enc: Encryption enabled (128) or none
   - Ver: Current Firmware Version
3. To exit, wait 8 seconds.

Messages

The pager stores the last 5 received messages.

To view the messages:

1. Press the Select Button once.
2. Messages 2 lines in length will show a > symbol on the end of the first line and a < on the second line. Messages over 2 lines in length, the middle lines will show "< the next line of the message >".
3. Press the Select Button to continue scrolling forward through the message or messages.

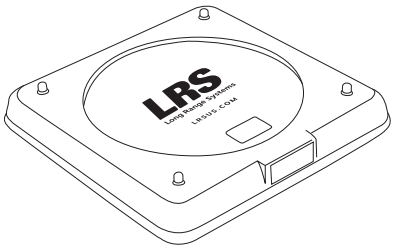
Time

Pager will display the current time. The T7470 Transmitter automatically updates this feature. If the time does not appear, a flashing star will appear on the right side of LCD to show pager is operational.

Programming

To program the pager see pg. 28

Using Non-Alphanumeric Guest Pagers



Charging

Any rechargeable guest pager will require use of an LRS charger.

1. Place the guest pager in the charger. For 15 Coasters, 10 Pizza pager, and 10 Lobster call pagers. Do not stack more than 10 pagers at a time on a Charger.
2. Allow unit to charge fully overnight.
3. Remove from charger, and pager will vibrate, beep, and light all lights as a verification that it is working.
4. Replace the pager in the charger at the end of each day.

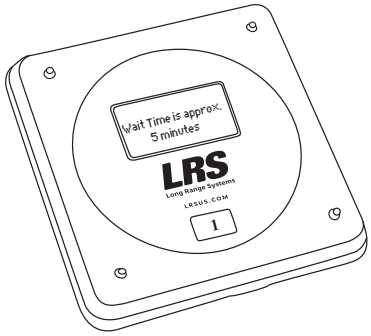
The pagers all use different chargers:

- Coasters use the Charger 8 (CH-R8).
- AdverTeasers and Star Pagers use the Charger 9 (CH-R9).
- Lobster Pagers use the Lobster Charger (CH-LP).
- Pizza Pagers use the Pizza Charger (CH-PZ).

Programming

To program the pager see pg. 27

Using Alphanumeric Coaster Guest Pagers



Charging

Any Alphanumeric Coaster pager will require use of an LRS coaster charger.

1. Place the pager in the charger. 15 pagers at a time on a Charger.
2. Allow unit to charge fully overnight.
3. Remove from charger, and pager will vibrate, beep, and light all lights as a verification that it is working.
4. Replace the pager in the charger at the end of each day.
   - The Alphanumeric Coasters use the Charger 8 (CH-R8).

Programming

To program the pager see pg. 27

Cleaning & Charging Instructions For LRS Paging Equipment

Cleaning:

LRS pagers are made from industrial-strength, polycarbonate material. However, this material is susceptible to hairline cracking if non-approved cleaners are used. When cleaning LRS pagers, we recommend only using ISOPROPYL ALCOHOL-BASED CLEANERS.

To clean the equipment:

1. Take a clean rag and an isopropyl-alcohol based cleaner.
2. Soak the clean rag with the isopropyl alcohol cleaner.
3. Wipe down the pagers or equipment.

Cleaning equipment with any other non-approved cleaners can weaken plastic and cause hairline cracks. Pagers and equipment that are cleaned with unapproved cleaners and suffer cracking will not be covered under warranty.

Do not submerge any LRS paging equipment in any type of liquid as this will also damage the equipment and is not covered under the standard warranty.

Charging:

Place rechargeable pagers on the charger and let them charge for 8 hours prior to first use.

Rechargeable pagers should be kept on charge even during extremely long periods of inactivity.

Only 12 VDC power supplies should be used with LRS chargers and transmitters. DC power supplies will cause damage to equipment that is not covered under the standard warranty.

Should you have any questions, please contact the LRS Customer Service Department at 800.437.4996, 214.553.5308 or your local LRS dealer.

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www.lrs.eu.com	www.lrs-lb.com	www.lrssa.com	www.lrspagers.co.uk

FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

   (1) This device may not cause harmful interference.

   (2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Warranty

Long Range Systems, LLC warrants this product against any defects that are due to faulty material or workmanship for a two-year period after the original date of consumer purchase. The warranty does not include damage to the product resulting from accident, misuse, improper electrical connection, or failure to charge the product within 30 days of receipt. Rechargeable pagers are required to stay on charge while not in use. Rechargeable pagers that are left off of charge for longer than 30 days will have a negative impact on the life of the batteries requiring them to be replaced thus voiding the warranty. If this product should become defective within the warranty period, we will repair or replace it with an equivalent product, free of charge. LRS will return your product via UPS ground shipping. All warranty claims must be initiated through our customer service department.

Customer Service: 800.437.4996
4550 Excel Parkway, Suite 200
Addison, TX 75001

This warranty gives you specific legal rights and you may also have rights that vary from state to state.

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TERMS & CONDITIONS

GENERAL TERMS AND CONDITIONS FOR LONG RANGE SYSTEMS, LLC (FOR PURCHASERS)

These general terms and conditions ("General Terms and Conditions") govern all persons ("Purchasers") that purchase or license equipment, software, firmware, and/or services (collectively "Deliverables") from Long Range Systems, LLC ("LRS").

Limited Software Use License. All software and firmware (collectively "Software") is licensed for use only by Purchaser and, in the case of Software for paging receivers, by customers of Purchasers. The Software is not sold.

Usage Restriction. Paging technology may at times not work due to structural and other types of interference with signal transmission and due to other reasons. Purchaser therefore agrees not to use any Deliverable for an application in which a paging failure might cause harm to a person, injury to a property, or a substantial business loss. Purchaser also agrees to abide by and strictly adhere to any rules, regulations and guidelines related to the use of any portion of any Deliverable to collect, store or transmit personally-identifiable information, including any "protected health information" (as defined by HIPAA), or billing or financial payment data, from any customer or other consumer.

Data Collection. In connection with the Deliverables, data provided by Purchaser and its customers may be collected in connection with surveys, consultations, and uses of the Deliverables, including email addresses, telephone numbers, locations of users (which may utilize geo-location technology), times of usage, times of paging, times of responses to paging, devices used, configuration preferences, cookies, and social network information. In order to provide LRS's customers with enhanced comparative benchmarking services with respect to customer industries, among other services, Purchaser hereby grants to LRS a royalty-free, perpetual, irrevocable license to use and distribute this data and results obtained through Purchaser's use of the Deliverables for any and all purposes; provided that LRS shall not identify any Purchaser, or distribute to third parties any "protected health information" (as defined by HIPAA) or billing or financial payment data of any customer or consumer of Purchaser, without the express prior consent of such Purchaser. Purchaser warrants that Purchaser has the right to disclose, transfer or otherwise make available any Protected Health Information (as defined in 45 C.F.R. § 160.103) or other personally identifiable information that is made available to LRS by Purchaser or by Purchaser's customers in connection with the Software or other Deliverables. Without limiting the foregoing, Purchaser shall obtain all authorizations, consents or other permissions from Purchaser's customers (or the customer's authorized personal representative) for the disclosure of customers' personally identifiable information to LRS that are required by federal, state or local law, including, without limitation, the administrative simplification section of the Health Insurance Portability and Accountability Act of 1996 and its implementing regulations.

Limited Warranty. LRS warrants to only Purchaser that the Deliverables will perform in accordance with specifications for them that LRS has published prior to their delivery for a period of time as specified in the purchase agreement or purchase order relating to such Deliverables. This limited warranty shall be voided if any Deliverable is modified or serviced by someone other than LRS.

Disclaimers. LRS HEREBY DISCLAIMS ALL IMPLIED WARRANTIES CONCERNING THE DELIVERABLES, IN-

CLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY IMPLIED WARRANTY OF NON-INFRINGEMENT. PURCHASER ACCEPTS THE DELIVERABLES "AS IS," EXCEPT FOR THE EXPRESS LIMITED WARRANTY MADE HEREIN.

Limitation of Remedies. In the event of any breach of any express warranty made herein, LRS may at its option repair or replace any defective Deliverable or refund the money that Purchaser paid for it. LRS's total liability for any defect in any Deliverable or for any other breach of any of its duties and obligations to Purchaser shall be limited to the amount of money that was paid for the defective Deliverable or the other duty or obligation. LRS will in no event be liable for any lost profit or any other type of consequential damage.

Confidentiality. The Deliverables and all computer systems that deliver any portion of them contain confidential trade secret information. Purchaser shall not attempt to reverse engineer any portion of the Deliverables or such computer systems, such as to decompile any portion of the Software, nor aid anyone else in doing so.

Intellectual Property. No portion of any intellectual property right in the Deliverables is being transferred to the Purchaser or to its customers. Purchaser may not copy or modify any portion of the Deliverables, nor permit or aid anyone else in doing so. Notwithstanding, Purchaser may use the Deliverables as they are intended to be used, as expressed in written materials published by LRS.

Operational Authority and Licensing Requirements. Non-Federal government Purchasers may operate the Deliverables within the United States under the licensing authority issued to LRS by the Federal Communications Commission (FCC), provided, however, that such operation is: (a) subject to LRS's control, (b) conducted on a non-profit, cost shared basis with costs apportioned as part of the price for such Deliverable, (c) in accordance method of operation set forth in the manual for the deliverable, available for download at http://lrsus.com/support and (d) limited to the term of this Agreement, the term of LRS's authority, or a term otherwise specified by LRS, whichever expires earlier. Notwithstanding the provision below entitled "No Third Party Beneficiary," users of any Deliverables acquired from Purchasers or other entities may contact LRS to determine if they may be eligible to operate under LRS's authority. Alternatively, Purchasers and users may obtain their own licensing authority; the FCC posts a list of licensing coordinators at http://wireless.fcc.gov/services/index.htm?job=licensing_3&id=industrial_business. Purchasers and eligible users of any Deliverable agree to abide by and strictly adhere to any rules, regulations and guidelines, including the FCC's rules, governing the operation of the Deliverable. Changes or modifications to any portion of any Deliverable may void the Purchaser's or user's authority to operate the Deliverable and should not be made without the express approval of LRS. Moreover, use of any portion of any Deliverable outside the United States is subject to the rules and regulations of other countries and may be prohibited. Use of any Deliverable constitutes Purchaser's and user's acceptance of and agreement to these General Terms and Conditions, including any revisions to these General Terms and Conditions that may be required to reflect changes in the regulatory or other obligations imposed upon LRS.

Governing Law and Venue. These General Terms and Conditions and any agreement relating to them shall be construed in accordance with and governed by the laws of the State of Texas (without regard to its conflicts of laws). Any dispute relating to these General Terms and Conditions and any agreement relating to them may only be heard and resolved by a court in Dallas County in the State of Texas. Purchaser consents to the personal jurisdiction of such courts over it. If any action at law or in equity is necessary to enforce or interpret any of the rights or obligations of the parties to these General Terms and Conditions, the prevailing party shall be entitled to reasonable attorneys' fees, costs, and necessary disbursements, in

addition to any other relief to which it may be entitled.

No Assignment or Transfer. The rights and benefits provided under these General Terms and Conditions, as well as under any agreement that incorporates them, shall not be assigned without the express written permission of LRS. Similarly, the Deliverables may not be transferred to any other person, without the express written permission of LRS. Notwithstanding, Purchaser may temporarily loan its customers paging receivers. Purchaser may also transfer the Deliverables, as well as the rights and benefits under these General Terms and Conditions and any agreement that incorporates them, as an ancillary part of a sale of its business or substantially all of its assets. Following any assignment or transfer, Purchaser shall remain bound by all of the duties and obligations that are set forth in these General Terms and Conditions and any agreement that incorporates them.

No Third Party Beneficiary. Except as otherwise expressly provided in this Agreement, these General Terms and Conditions, as well as any agreement that incorporates them, are solely for the benefit of Purchaser. Neither the customers of Purchaser, nor any other person is an intended beneficiary of these General Terms and Conditions or any agreement that incorporates them, nor shall any such person have the right to any benefit that is provided under these General Terms and Conditions or any agreement that incorporates them.

Merger. Except as otherwise specifically set forth herein, these General Terms and Conditions, and any agreement that incorporates them, supersede any oral or other representation that may have been made about these General Terms and Conditions, any agreement that incorporates them, or any of the Deliverables. These General Terms and Conditions, and any agreement that incorporates them, may not be modified or superseded, except by a written agreement or a written amendment that is signed by LRS. In the event of any inconsistency between these General Terms and Conditions or any agreement that incorporates them and any form or other document supplied by Purchaser, such as a purchase order, the terms of these General Terms and Conditions or any agreement that incorporates will prevail

Severability. In the event that any portion of these General Terms and Conditions or any agreement that incorporates them is found to be invalid or unenforceable for any reason, the remaining portions shall continue to be in full force and effect.

Fees & Payment. Purchaser agrees to pay all Service and Deliverable fees, plus any applicable taxes, in accordance with the terms and payment method set forth in this agreement. Purchaser is responsible for providing accurate billing and contact information to LRS. LRS retains the right to suspend or terminate services if fees become past due. LRS reserves the right to change Service rates by providing Customer at least 30 days' notice prior to billing.

Term & Termination. Purchaser has the option of purchasing Monthly or Annual service plans which are non-refundable and not available for proration except as required by law. Monthly agreements will auto-renew on a month-to-month basis until such time that a formal termination notice has been received by LRS. Prepaid Annual agreements will automatically renew at the end of each annual term unless Purchaser has given cancellation notice 30 days in advance of renewal term. Monthly-billed Annual agreements will auto-renew on a perpetual month-to-month basis upon completion of the initial annual term until cancellation notice is received by LRS. In the event that any agreement incorporating these General Terms and Conditions is terminated for any reason, all of the duties and obligations that the agreement and these General Terms and Conditions impose upon Purchaser shall continue in full force and effect, except any obligation to make payment for a Deliverable prior to its delivery.

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